

Product Name: NOS3 (phospho Thr494) Rabbit Polyclonal Antibody
Catalog #: APRab05124

Summary

Production Name	NOS3 (phospho Thr494) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	ELISA, WB,
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NOS3
Alternative Names	NOS3; Nitric oxide synthase; endothelial; Constitutive NOS; cNOS; EC-NOS; Endothelial NOS; eNOS; NOS type III; NOSIII
Gene ID	4846.0
SwissProt ID	P29474. The antiserum was produced against synthesized peptide derived from human eNOS around the phosphorylation site of Thr494. AA range: 462-511

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
Molecular Weight	130-140kD

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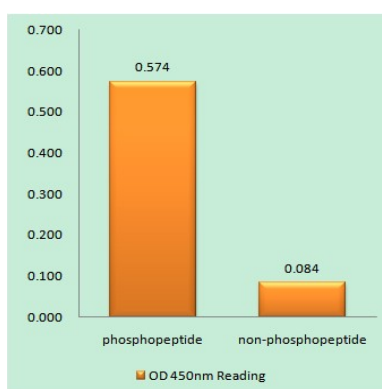
Background

Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009], catalytic activity: L-arginine + n NADPH + n H(+) + m O(2) = citrulline + nitric oxide + n NADP(+), cofactor: Binds 1 FAD, cofactor: Binds 1 FMN, cofactor: Heme group, cofactor: Tetrahydrobiopterin (BH4). May stabilize the dimeric form of the enzyme, enzyme regulation: Stimulated by calcium/calmodulin. Inhibited by NOSIP and NOSTRIN, function: Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets, online information: Nitric oxide synthase entry, polymorphism: Variation in NOS3 seem to be associated with susceptibility to coronary spasm, similarity: Belongs to the NOS family, similarity: Contains 1 FAD-binding FR-type domain, similarity: Contains 1 flavodoxin-like domain, subcellular location: Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle; which is favored by interaction with NOSIP and results in a reduced enzymatic activity, subunit: Homodimer. Interacts with NOSIP and NOSTRIN, tissue specificity: Platelets, placenta, liver and kidney,

Research Area

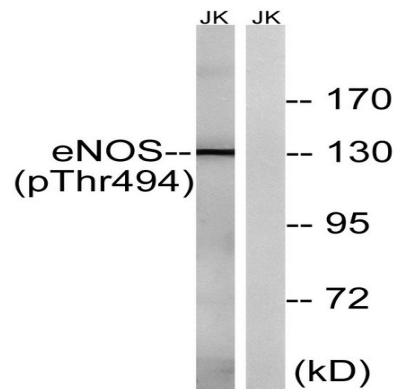
Regulates Angiogenesis; AMPK; PI3K/Akt; Protein_Acetylation

Image Data

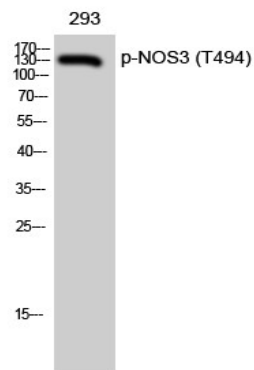


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eNOS (Phospho-Thr494) Antibody

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Western blot analysis of lysates from Jurkat cells, using eNOS (Phospho-Thr494) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of 293 cells using Phospho-NOS3 (T494) Polyclonal Antibody diluted at 1: 1000

Note

For research use only.